

2023 FAA DATA CHALLENGE

DRIVING INNOVATION THROUGH DATA

Using Artificial Intelligence/Machine Learning and Data Analytics to Solve Aviation-Related Challenges

faadatachallenge.nianet.org

The **2023 FAA Data Challenge** focuses on the use of **Artificial Intelligence/Machine Learning (AI/ML)** and advanced analytics to address aviation-related problems and opportunities. AI/ML is rapidly transforming many industries including aviation.

Successful submissions will push the boundary and introduce novel approaches to aviation problems as the Federal Aviation Administration (FAA) moves further towards an info-centric National Airspace System (NAS).

University Student Competition

Up to 10 teams will be invited to compete for the

\$25,000 TOP PRIZE

As a regulator and operator, the FAA's diverse mission activities collect and generate a tremendous amount of data. This data and information must be leveraged to its fullest extent possible to enable the mission, which is to provide the safest and most efficient aerospace system in the world, to drive efficiency, improve accountability, fuel innovation, exploit the use of data, and embrace modern analytical techniques.



Teams should submit advanced analytics and AI/ML proposals that address one of the following categories:

- **Improve Aviation Safety**
- **Improve Operational Efficiency of the NAS**
- **Contribute to the Drive for Sustainable Aviation**
- **Assist with the Rapidly Evolving New and Novel Uses of the NAS**

[View Challenge Website](#)

2023 FAA Data Challenge

HOW TO COMPETE

- 1 Thoroughly review the Challenge Guidelines.
- 2 Form a team consisting of a qualified academic advisor and a diverse team of students.
- 3 Ensure your team meets the eligibility requirements.
- 4 Submit an Expression of Interest (EOI) by the deadline.
- 5 Develop and submit a Project Abstract by the deadline.
Up to 10 finalist teams will be selected to advance to the final phase of the competition.
- 6 Finalist teams submit a technical paper documenting their solution and present on-site demonstrations at the Challenge Forum in the Washington, DC metro area.

ELIGIBILITY

The FAA Data Challenge is open to teams of undergraduate and graduate students at accredited United States-based colleges and universities. Teams may include senior capstone students, clubs, and multi-university or multi-disciplinary students. **Minority Serving Institutions are highly encouraged to apply.**

Please see the Challenge website for full program [eligibility](#).

[Submit an Expression of Interest \(EOI\)](#)

PRIZES



Up to 10 finalist teams will be selected to compete at the 2023 FAA Data Challenge Forum and receive a travel reimbursement of up to \$8,000 help offset the cost of traveling to the Washington, DC metro area to demonstrate their concepts at the Challenge Forum.

The lead university of the top three (3) teams will be awarded a \$10,000 cash prize. One (1) additional \$15,000 cash prize will be offered to the university with the best overall submission!

DATES AND DEADLINES

October 15, 2022	Challenge Opens
November 6, 2022	Submit Your Expression of Interest
November 16, 2022	Q&A Session #1 Webinar
January 18, 2023	Q&A Session #2 Webinar
January 22, 2023	Submit Your Abstract
February 28, 2023	Teams Notified of Selection Status
May 7, 2023	Finalist Teams Submit Technical Papers
June 21-22, 2023	2023 FAA Data Challenge Forum in Washington, DC metro area

* Dates subject to change



The FAA Data Challenge is sponsored by the Federal Aviation Administration (FAA) and managed by the National Institute of Aerospace (NIA).